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SUBJECT

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THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELUGENCE ANALYSTS OF TRAINED IN LOST OF THE PORT HAVE BEEN AND THE PORT HAVE

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THOU MINES IN KAUSU

By Li Haiso-ou

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Inquatrialization is the basic objective in building the Northwest econoin mustrialization is the back objective in building the derivest economy, and this depends chiefly on mineral resources. Of these the brothwest has an abundance, but unfortunately they are little developed. Coal and from are the backbone of heavy industry. In postwar economic recovery the rich resources of the Northwest should be used in developing defense industries. Kansu is rich in minerals: the iron of Chieng and Hui, the coal of Lan-chou, Tung-teng and Ching-mink, the petroleum of Yik-man, and other minerals yet unexploited. These should all be surveyed and exploited not norely to improve unexploited. These should all be curreyed and exploited not norely to improve living conditions, but also for noblemal defense.

In 1940 the four government bents through their branches in Lan-chou orgenized a Kansu Mineral Survey Office. From prospectors were sent throughout the areas of Lan-chou and Yung-beng for proliminary surveys. In May 1941 the Kansu provincial government organized several invocing ting parties for funther study, which reported numerous localities where iron nines could be profitably worked. These are found chiefly in the nine haien of Tilen-shul, Rui, Ch'ong, Liang-teng, Li, Pling-liang, Mag-ting, Keo-lon, and Tung-tong. Many of these spots have been warled intermittently by primitive methods.

Mines have been weeked in Tion-aimi Maion, but the voins are thin and the quality is poor, while fuel for westing is scarce.

Hui Haion contains many outcrops of ore, which have from 40 to 50 percent iron content. However, these are mostly in myged terrain with poor facilitios for transport. Some old pite are being rewerked with better methods.

Chieng Heien, like the foregoing hoien, contains many outerope of hemetite and other ores, with high percentages of iron; but this haien also is

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company of the collection of the halon, the product mainly going into farm tools.

In blang-tang there are many outcrops of high-quality iron ore about 100 km south of the helen seat. The altitude here is about 6,000 feet, and the terrain is rugged. A furnece has been set up at Shang-chin-he about 10 km from one of the larger mines.

In Li Hoien there is a famous iron mountain, some 80 km south of the heien seat. Around this mountain for 10 km or more are numerous enterops with 50 percent and more iron content. The locality is heavily forested so there is plenty of timber, and good coking coal is found in Mu-tu Heim only 80 km distant. Mining and smolting can be done in this county on a large scale. Its iron-ore reserves are estimated at 5 million tens.

Iron ore in Pling-liang Haien is found in two forms, in modules in Permian shales, not worth working, and in netemorphic, sadimentary, weathered beds. These beds are generally accessible. These at Erk-tso-ken are closely associated with coal deposits, and when the latter are opened up, may prove profitable for working.

The An-k'ow yao district, some 40 km southeast of the Rua-t'ing Hoion seat, is famous for its pottor's clay and large reserves of coal. With these are associated iron-ore beds of 30 percent iron content. These bods cannot be worked profitably unless the magnetic method is applied. However, if the coal does not coke, the primitive Shansi method might be used. This method consists in making hollow clay cylinders some 2 feet long and 6 inches in diameter, and filling these with bits of iron ore. Sixty-four of these cylinders are placed in two layers in a rectangular furnace, which is covered with broken tile. A hot fire below, by a vigorous use of the bellow, produces liquid iron in about 34 hours. Became of the present urgent need for rew materials, it is better to use primitive methods than to let the beds lie idle.

Mac-lan Helen has good quality from-one beds about 105 km north of Lanchou which are easily accessible. A sample analysis shows a percentage of 57.77 pure from. Other ingredients for smolting are found nearby.

The largest iron deposits in Yung-teng Huien are found at Yso-chich, about 60 km southwest of the heion seat. These are estimated as possibly 2 million tons, containing 36.48 percent iron. According to the studies of Huang Chi-ching, the quality of this ore is not inferior to that of Wai-yuan in Szechwan, and other needed materials such as bituminous coal, limestons, and fire-resistant clay are found nearby. He suggests an ore-reduction plant at Yao-chich, using small furnaces such as have been found successful in Szechwan. If such a plant were located in the Ta-tiung He valley, it could become the industrial center of the northwest.

From is found in other localizing in this hairn, but not in paying quantities.

Numerous scattered outcrops are found in other parts of the province, notably a high-quality deposit in Lover-ii. Min listen, where transportation is difficult.

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known reserves of iron ore in densu may be listed as rollows:

Locality		Amount (in tone
Tion-almi		50,000
Hai Haien	(x,y) = (x,y) + (x,y	360,000
Chi eng Heion		25,000
Liang-tang		114,000
Li Beien		5,000,000
Pling-liang		294,450
Hra-t'ing	and the second production of the second produc	2,233,820
Kao-lan		1,500,000
Yung-bang	and the second of the second o	3,000,000
Other places		1.000.000
Total		12,637,270

Conclusion

The scarcity of iron in the Northwest is more serious than that of coal. Before the war, the entire region depended on Shansi; during the war it had to look to Shansi for crude iron. The principal iron deposits in Kansu are in the scattern part, where large reserves of high quality ore are found containing about 50 percent pure iron. However, because transportation is poor, most of them have not been opened up, and cannot be used. According to Huang Chi-ching, the Northwest not only lacks mines to supply modern smelters, but also coking coal within easy transport range. Only at Yao-chich, in Yungteng Esien, is there a place centrally located with transportation facilities, abundant coal, and a good number of iron mines. He propuses using small furnaces. Hem-type equipment is not easy to install now. It is better to develop on a modest scale, using improved local methods. Meanwhile careful studies and extensive surveys should be kept up, because of the importance of iron mixing in economic reconstruction.

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